

-113      -108                  -99

1a 5'-----TTTGGGCG (T) GCCCCCGCAAGAC-----3 (SEQ. ID. NO. 34)  
   X←       1BR       5'

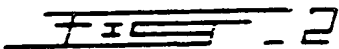
1b 5'-----TTTGGGCG (T) GCCCCCGCGAGAC-----3' (SEQ. ID. NO. 35)  
                                 XXXCCCGC (G) CGGGGGCGC←       1BR       5' (SEQ. ID. NO. 36)

1a 3'-----AAACCCGC (A) CGGGGGCGTTCTG-----5' (SEQ. ID. NO. 37)  
5'-----1AB-----CG (C) GCCCCCGCXX (SEQ. ID. NO. 38)

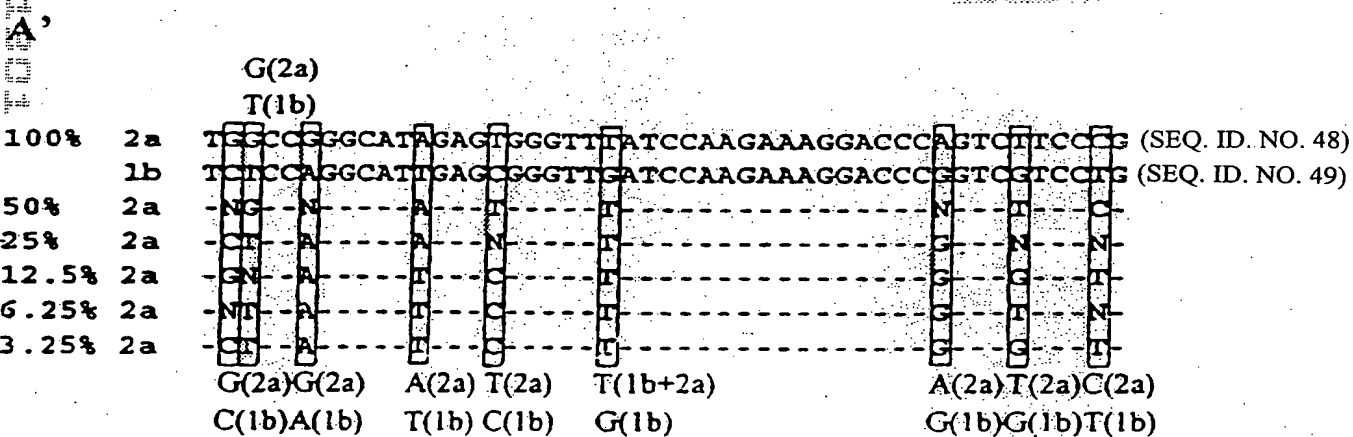
1b 3'-----AAACCCGC (A) CGGGGGCGCTCTG-----5' (SEQ. ID. NO. 39)  
5'-----1AB-----CG (C) GCCCCCGCGX X (SEQ. ID. NO. 40)

1a 5'-----TTTGGGCG (T) GGGGGGCG (A) AGAC-----3 (SEQ. ID. NO. 41)  
AAACCCGC (G) CGGGGGCG (C) ← 1BR 5' (SEQ. ID. NO. 42)

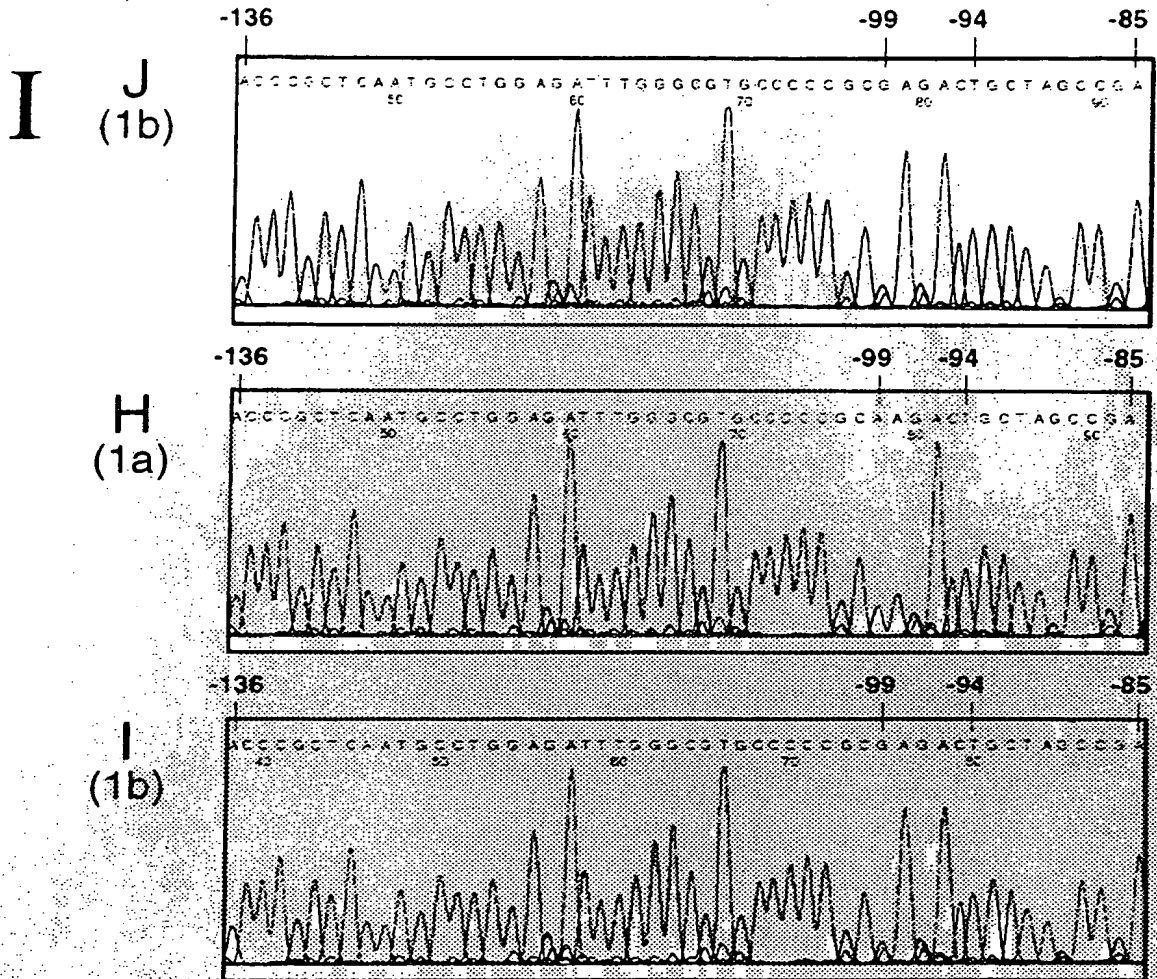
Fig. 1



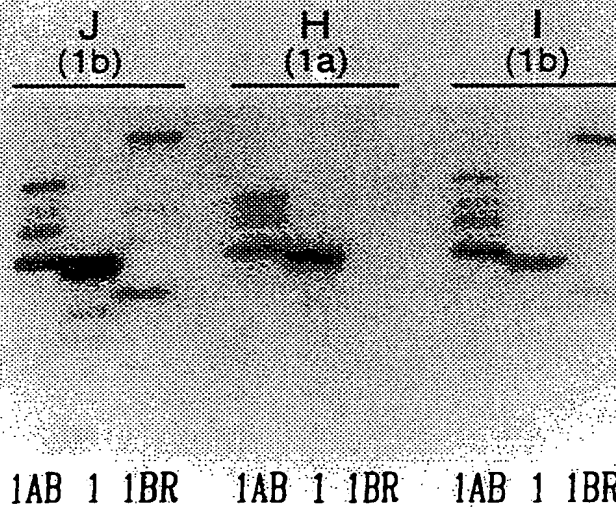
**B**



FILE



**II**



dNTPS

Expected base extension

ATC	<u>Primer →T CAXX</u>	3
ATG	<u>Primer →T X-XX</u>	1
ACG	<u>Primer →X-X</u>	0
TCG	<u>Primer →T CX--X</u>	2
WT	-----A GTCCACATCCT-----	(SEQ ID NO:16)
ATC	<u>Primer →X X</u>	0
ATG	<u>Primer →G XX</u>	1
ACG	<u>Primer →G CAGGX-X</u>	5
TCG	<u>Primer →G CX--X</u>	2
MU	-----C GTCCACATCCT-----	(SEQ ID NO:17)

3' XTCATACTAXTCCATGAGTATCTTTAGACACCTGTATTTCG 5' L63 + PRIMER (1) (SEQ ID NO:18)  
 5' AGACAGTATGATCAGGTACTCATAGAAATCTGTGGACATAAAGC 3' PRO63L(G)-R (SEQ ID NO:19)

X

3' GAGTATCTTTAGACACCTGTATTTCG 5' L63P + PRIMER (2) (SEQ ID NO:20)  
 5' AGACAGTATGATCAGGTACCCCATAGAAATCTGTGGACATAAAGC 3' PRO63L(G)-R (SEQ ID NO:21)

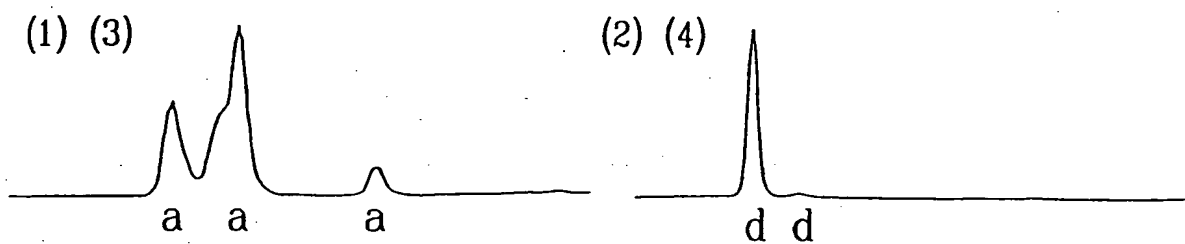
6/10

3' XTCATACTAXTCCATGGGTATCTTTAGACACCTGTATTTCG 5' L63P + PRIMER (3) (SEQ ID NO:22)  
 5' AGACAGTATGATCAGGTACCCCATAGAAATCTGTGGACATAAAGC 3' PRO63P(G)-R (SEQ ID NO:21)

X

3' GGGTATCTTTAGACACCTGTATTTCG 5' L63 + PRIMER (4) (SEQ ID NO:23)  
 5' AGACAGTATGATCAGGTACTCATAGAAATCTGTGGACATAAAGC 3' PRO63P(G)-R (SEQ ID NO:19)

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FISS-6B

3' **XX**GACTTCTGAGTCTAACCAACGTGAAATTTA 5' PRO90L-R (1) (SEQ ID NO:24)  
5' --AATCTGAAGACTCAGATTGGTTGCACTTTAAAT---3' L90 (SEQ ID NO:25)

X

3' TTCTGAGTCTAACCAACGTGAAATTTA 5' PRO90L-R (2) (SEQ ID NO:26)  
5' --AATCTGATGACTCAGATTGGTTGCACTTTAAAT---3' L90M (SEQ ID NO:27)

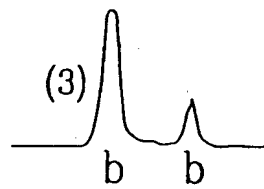
3' CTGTCAACATAATTGGAAGAAATCTGAT**GACGCAG**AXX 3' PRO90M-F (3) (SEQ ID NO:28) <sup>8</sup>/<sub>10</sub>  
5' --GACAGTTGTATTAAACCTTCTTTAGACTACTGCGTCTAA---5' L90M (SEQ ID NO:29)

X

3' CTGTCAACATAATTGGAAGAAATCTGAT 3' PRO90M-F (4) (SEQ ID NO:30)  
5' --GACAGTTGTATTAAACCTTCTTTAGACAACTGAGTCTAA---5' L90 (SEQ ID NO:31)

# FEZ-A

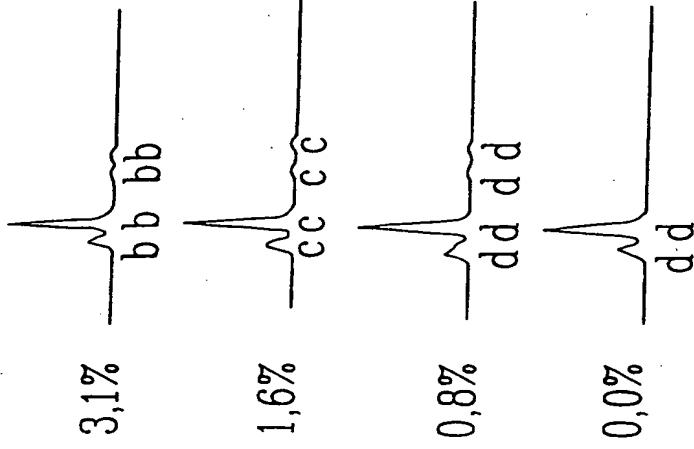
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FE-7B

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MU    → T AGTTGTATTAAXX    (SEQ ID NO:32)  
----- A TCAACATAATTGGAAGA    (SEQ ID NO:33)

WT    → X -----  
----- G -----

TTT-A